



NOVEMBER 2022

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©Radio Club of Tacoma W7DK

FROM THE EDITOR!

Hello Again Members!

I hope that everyone is doing OK. I certainly am.

Another November has come and gone, and with the opening of contest season, several of the W7DK club members, including yours truly have began participating with some of the contests this month, most notably the annual ARRL Sweepstakes contest, where we try to contact all 84 ARRL / RAC sections. It's a very traditional contest, based on the radiogram message format that is / was used by the National Traffic System to send messages all across the USA back in the day.

In other news, November is also the start of the USA holidays season beginning with Thanksgiving. Hopefully, we all had a good Thanksgiving! Here at radio WG7X we celebrated as we always have, with a turkey dinner / lunch and all the trimmings. At the time that I'm typing this, four days later, we're still living on leftovers!

My wife kind of went pie crazy this year with three pumpkin pies, one chocolate and one coconut cream pie! We will have to work extra hard to burn off those calories...

So here is another good issue of The Loggers Bark, made bigger and better due to the contributions from you, the members.

Keep those cards and letters / emails coming in!

73 Gary WG7X



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Radio Club of Tacoma
Board of Directors Meeting Minutes
November 2, 2022

Meeting called to order at 19:12 local time by President Mike W7XTZ

Officers and Directors Present

President Mike Mikuchonis W7XTZ
Vice President Adam Barbera W2NCC
Secretary Mike Drorbaugh W7MKE
Treasurer Steve Dightman AF7YD
Board Paul Matney W7PFU
Board Doug Schafer AB7DG
Board Red Cranefield WB7EC
Board Phil Pia K7PIA

Quorum? A quorum of Officers and Directors was present, and sixteen members attended in person or via zoom.

Silent Key Illness?

Randy WB4SPB reported attending the memorial for Toby Finney XYL of former Secretary Mike Finney W7MWF. Dan AD7SV reported continued efforts to contact the family of Robert Edwards N7HXX. Gary WG7X reported he had a minor procedure to remove skin cancer from his scalp.

Approval of Minutes of October 5, 2022, RCT BOD Meeting. Without objection the minutes were approved as posted.

Secretary's Report (W7MKE)

Correspondence this month included: Insurance notifications, county personal property updates, memberships & ballots, QSL cards and a Mike & Key invitation for 2023 that was forwarded to Red WB7EC who reported he's already submitted our reservation.

Treasurer's Report (AF7YD)

Steve AF7YD submitted a written report that is attached to these minutes. Steve pointed out a line item that was for an "in kind" donation. Steve is still working out how to record and report those donations.

Committee / Reports

Membership / Salmon Run (W7XH/K7GRS)

Mike W7XH reported as of the end of October he has processed 99 membership renewals. Total membership stands at 292 members. He reported the membership types as follows:

Current membership breakdown by license class:

Tech 59, Tech + 1, Extra 135, General 82 & Advanced 8.

Current membership by member type:

lifetime	34
honorary	6
full	84
senior	42
associates	3
family members	13
promotion members	10

For Salmon Run he reported 68/69 people pledged or gave to Salmon Run but there could be one or two more or less as he is auditing his records. It was a successful Salmon Run as indicated in the Treasurer's financial report. There remains about \$XXXX in outstanding pledges.

Info Tech and Website (WB4SPB)

Randy WB4SPB reports: "All systems are nominal." RCT had an Internet service interruption today that required a modem reset, all systems seem OK now.

HF Operations(K7PIA)

Phil K7PIA reported all stations are operational. See www.contestcalendar.com for radio sport. We are in contest season with popular contests upcoming. See <https://www.ng3k.com> for DX information. There is a lot of good DX upcoming.

Phil and AL N7OMS reported the VHF/UHF station is up but not all antennas are correct. Recently the 2M coax was checked and has a problem, possibly the connectors. The 6M vertical needs adjustments. Steve AF7YD and Phil K7PIA activated the Official Emergency Station last Saturday. There was discussion about various rig interface equipment.

Tower (K7MO)

Al N7OMS reported plans to do grounding of the tilt up tower that may extend to the main tower. Adam W2NCC reported that he has finally received the standoffs for the main tower and must make plans and a schedule for doing tower updates that may not happen until the weather improves.

Repeater Ops (N7OMS)

Al N7OMS reported that Jim K7SSS will help troubleshoot the GE Master II receiver so it can be used at the Bates site. John K17YRC also has a repeater GE Repeater at Bates that needs repair and has requested help. Both repeaters need to be moved to the new Bates Building location.

Facilities Management (W2NCC)

AdamW2NCC reported he has the paint for the kitchen ramp. He reported that the smoke detectors need to be replaced. Bob K7MXE gave Adam information on how to get the AED battery that we need.

Property Management (WB7EC)

Red WB7EC reported that in October we took in \$XXX from PMT sales. New donations should be ready to list in a couple of weeks.

Museum (KD7SV)

Dan reported that the Heathkit SB-201 tested out fine and was used in the Classic Ex-

change contest where about 50 contacts were made by Randy WB4SPB and Quentin K7DRQ. Also, Pete Markus KC7YDW worked on the Heathkit SW-717 receiver and identified some failed components. The HW-16 Dan has been restoring needs more work to get full power and to send CW correctly. Dan wants to try to recognize the Straight Key Century Club by using the K3Y/7 callsign a couple of days in January. He also wants to plan an October 2023 recognition of RCT's 107th anniversary with a special W7DK/107 callsign.

Wednesday Workshop (WB4SPB)

To be announced.

General Meeting

No topic determined. Doug AB7DG suggested we make a video of how to start up and operate the FLEX Radio, and/or a series of videos on various equipment at the Club.

Unfinished Business:**Possible additional donations**

Doug AB7DG mentioned a Microsoft email indicating registering to receive a donation. It is unknown exactly what this is about, possibly a Microsoft employee who gets a matching donation for his charitable donations. Or it might be a software program enabling the club to receive donations from businesses. There may be a fee associated with this software/program. Adam W2NCC will question Dave W7GEL about this.

New Business:**Awards Banquet Planning.**

We have reserved the Collins Grange located at 3404 120th ST E, Tacoma for the December 11th Awards Banquet. The Board by consensus agreed to do the usual and provide the meat for the banquet which is usually a Turkey and a Ham, and the remainder of the food would be potluck. Randy WB4SPB would manage the AV setup for ZOOM. Doug AB7DG will allow use of his Bluetooth amplified speaker. And Secretary Mike will print awards.

Does the Club need a credit card?

A debit card may be more appropriate. People also want to pay electronically. Adam W2NCC wants the PayPal information because people purchasing from PMT want to pay that way. There is a need for a method to take payments electronically. The issue of taking payment was not addressed at this time.

Mike W7MKE moved to obtain a debit card for the RCT Checking Account. Motion was seconded by Doug AB7DG. **Motion passed.** The Treasurer is to maintain possession of the Club's debit card.

Planning for the Club's future.

Mike W7XH detailed the aging of the RCT membership and asked how will the club succeed in the future? 182 of 292 members are over 65 years old. He tasked the BOD to develop a plan for future growth of the club and to actively discuss the future of the Radio Club of Tacoma. He mentioned that Amateur Radio is changing with digital modes, VARA, DMR, Satellites, etc., and the BOD needs to address changing interests. He suggested that RCT BOD should be planning how to maintain the club membership.

Mike's suggestions and the lengthy discussion that followed seemed to focus on two points: we need better programs, and we need training and programs that address the new elements of amateur radio.

Adjournment was at 21:23 local time.

Submitted by,
Mike Drorbaugh- W7MKE
RCT Secretary



Radio Club of Tacoma
General Meeting
November 9th, 2022

Officers and Directors Present

President	Mike Mikuchonis W7XTZ
Vice President	Adam Barbera W2NCC
Secretary	Mike Drorbaugh W7MKE
Treasurer	Steve Dightman AF7YD
Board	Doug Schafer AB7DG
Board	Phil Pia K7PIA
Board	Paul Matney K7PFU
Board	Red Cranefield WB7EC
Board	Bruce Hansen WE7P

Meeting Called to Order at 19:00 by President Mike W7XTZ

Flag Salute: Lead by Doug Schafer AB7DG

Quorum? All Officers and Directors were present and a total of 35 voting members attended the meeting resulting in a quorum.

Welcome and Acknowledgement of New Members and Visitors (Please introduce yourselves)

New member Douglas Schell KE7YOB attended. He was a former member of a Bellingham club and specializes in EMCOMM and SAR activities. Brady Friedrich AE7GG from Gig Harbor joined in September also attended.

Health and Welfare/Silent Key & Illness

Richard Kear KD6FEA became SK June 30, 2022, and was remembered at the July Monthly Meeting

and again tonight. Another SK is Donald B. Hutt WB7BLQ was RCT VP in 1977 and club President in 1988.

Election Committee:

The Election Committee appointed by President Mike W7XTZ was Dave Stillwell AC7KP, Gary McAdams WG7X and Mike Isakson W7XH. They were tasked with counting the ballots.

Secretary's Report

Mike W7MKE reported routine correspondence, ballots, membership renewals, magazines, QSL cards and bank statements. We have also received an invoice for Liability Insurance for 2023. There was some discussion on the amounts of the coverage (\$1,000,000/\$2,000,000) and cost (about \$450/yr.). Insurance renewal business is passed to the Treasurer.

Treasurer's Report

Steve AF7YD reported that the club is current on all bills. Further, this is income season with Salmon Run and Membership dues coming in so we now have more income than expenditures for the year. Steve is reviewing our long-term spending trends and is beginning to plan for a reserve account to manage big ticket items that may occur like roof replacement or other big expenses.

Details are on our Statement of Financial Position (Balance Sheet) our Statement of Financial Income and Expenses (Profit and Loss statement) and on the report by class that Steve uses in QuickBooks which details specific income and expenses. He reported that overall we are in good shape financially.

Steve reminded members that they are allowed to view financial statements by logging onto the website and going to the governance tab and viewing BOD minutes. Statements there are at least a month old as minutes of BOD meetings are not posted on the website until approved at the next BOD meeting. Those wishing to see a statement sooner should contact Steve.

Committee / Activity Reports

Library: Dedication of RCT Doug DeMaw Lending Library by Dr. Doug Oakman AD7AV

Doug AD7AV delivered a prepared presentation to dedicate the Club's Doug DeMaw Lending Library. He listed some of the accomplishments of Doug DeMaw, a prolific author and mentor and told how the Doug DeMaw library came to be here at Radio Club of Tacoma. Doug's complete presentation will be published in the November 2022 *BARK*

Membership (W7XH/K7GRS)

Mike W7XH reported that to date we Have 120 renewals out of 294 total members. Mike gave the following breakdowns:

Current membership by license class:

Tech	59
Tech +	1
Extra	135
General	82
Advanced	8

Current membership by member type:

lifetime	34
honorary	6
full	84
senior	142
associates	3
family members	13
promotion members	10

Club membership by age:

65 – 69 42

70-79 88

80-89 45

90-99 06

104 01

Aged 65 and over are 182 members or about 2/3 of our membership

60-64 21

50-59 40

40-49 29

30-39 12

20-29 07

10-19 01

This totals 116 members under age 65

Mike stated we need to look to the future and plan how to bring in more young members as this is a hobby that can appeal to people of all ages.

Training (AD7AB)

Stephen AD7AB reported that 3 people took the Technician Training last weekend with one already having a license. The other two participants were tested at Tuesday's VE session and passed. Dave Brooks N7HT is conducting a General License Class that will conclude November 28th. Dave is planning for Extra Class in January depending on interest.

VE Report (AC7WW)

John AC7WW submitted the following written report:

Tuesday November 8 your VE Team had two very successful sessions. Fourteen candidates were served. Twenty-seven exams were graded with seven new Technicians, three Generals and four Extras.

Thanks to the following for their service and time.

Leonard, KA7NWF Quentin, K7DRQ

Rich, KK7VH Mike, W7XH

Stephen, AD7AB

The next scheduled test session is Tuesday, December 13th, 2022.

HF Operations (K7PIA)

Phil K7PIA reported all HF stations are working but the amplifiers at both stations need service as the fans are not working. For contests see www.contestcalendar.com. Last weekend was ARRL CW sweeps and phone sweeps are this coming weekend. See Phil or Adam W2NCC if you want to work phone sweeps at the club. Randy WB4SPB reported on CW Sweeps. The

operators were Dan K7MM, Radik KG7HWU, and Randy WB4SPB. They operated for about 14 hours total and made 440 QSO's. They came within one contact of getting a clean sweep of multipliers, missing only the Canadian Maritimes. Their total score was 73,704 points.

For DX check out www.NG3K.com. There are several DXpeditions out and band conditions are good. Several members mentioned good DX contacts lately.

IT Report (WB4SPB)

Randy WB4SPB reported "All stations are nominal." He thanked those who helped him by reporting broken website links and obsolete information. Randy appreciates all such reports you can send them to webhost@W7DK.org or to his personal email.

Museum (KD7SV)

Dan KD7SV reported that Pete Markus KC7YDW has been working on a SW-717, a first-generation solid state receiver kit produced by Heathkit. Pete, Dan, and others identified some issues and work is ongoing. Dan worked on the HW-16 but it needs a new crystal and is about 10W short on power output during keying. Adam W2NCC and Dan also tried to start the Swan 350C but only managed to let the smoke out. Adam W2NCC will continue working on the Swan. The Heathkit SB-200 has been repaired and returned to PMT for sale. The SB-201 was used in the Classic Exchange CW and worked well. This coming Sunday and Tuesday is Classic Exchange Phone. If you are interested in participating see Dan KD7SV. In January we will have one or two days using the K3Y/7 callsign to honor the Straight Key Century Club. October 2023 is the club's 107th anniversary and Dan wants to celebrate in some manner perhaps with W7DK/107 callsign. If you have ideas, please let him know.

Property Management (WB7EC)

Red WB7EC reported that last month PMT took in \$XXX. We have already signed up for Mike and Key March 11, 2023, for tables 5, 6, and 7. The latest PMT list will be posted on the website soon and will be posted at the clubhouse next Saturday.

4th Wed. Night Activity (WB4SPB)

Randy WB4SPB has not selected a topic yet.

Bark Editor (WG7X)

Gary WG7X reported that he appreciates BARK contributions and Rich Patrick KR7W who now lives in Idaho is still contributing content. Thank you to all contributors.

Unfinished Business

Nothing offered.

New Business

Report of the Election Committee on results of Officers/BOD Voting

Gary WG7X gave the Election Committees' report:

118 ballots were returned and counted.

Mike Mikuchonis W7XTZ was reelected as President for 2023-24

Steve Dightman AF7YD was reelected as Treasurer for 2023-24

Phil Pia K7PIA was reelected as Director for 2023-24

Paul Matney was reelected as Director for 2023-24

Report of results of Bylaw Voting

The proposed bylaws passed with 116 of 118 votes for approval.

Announcements/show and tell/ traffic & Tuning

The Puget Sound Repeater Roundabout will begin on November 19th, 2022, at 00:00, and end on November 20th, 2022, at 23:59, Pacific time, (all day Saturday, all day Sunday).

Other than nets and public service events, there aren't many organized, repeater-centered operating activities, but here is one and it promises to be fun and interesting. The idea is to make contacts on as many of the **more than 100** participating repeaters as possible. You can use internet connectivity (e.g. All-Star, Echolink) for repeaters with that capability even if you are not within radio range. You can travel to be in range if you like. There are participating repeaters on several bands.

On each repeater, one contact (even with a non-participant) scores a point. Additional contacts on the same repeater **do not** score additional points, but if you make contacts on all repeaters associated with a given club or organization, you can double your score for those repeaters. **For example:** Radio Club of Tacoma operates four W7DK repeaters. If you make contacts on three of them, you score 3 points. But if you make contacts on all four, you score 8 points.

See complete details, including operating and logging guidelines and a list of participating repeaters, at www.repeaterroundabout.com.

Gary WG7X reported that the high bands 10M, 12M are open

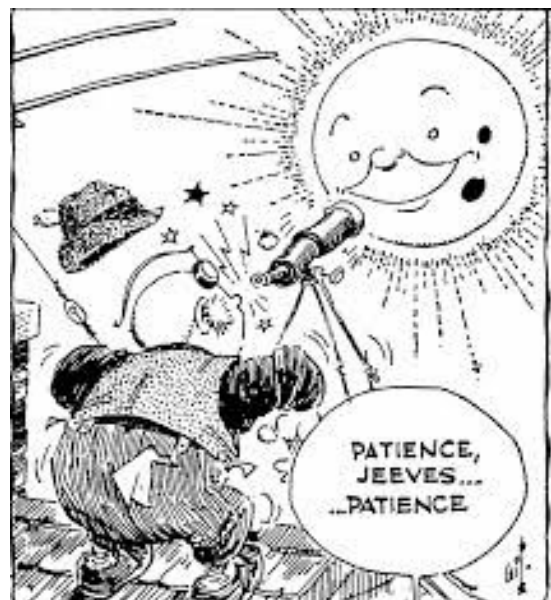
The December Awards Banquet is December 11 at 1PM it is a potluck but RCT will provide a Ham, Turkey, and drinks. Bring your best side dish or dessert. The location is same as last year: Collins Grange, 3404 120th St E, Tacoma, WA.

Adjournment at 8:06 local by Mike W7XTZ



Michael Drorbaugh – W7MKE

Secretary, Radio Club of Tacoma



Doug DeMaw Circulating Library Dedication**Douglas E. Oakman AD7AV, November 9, 2022**

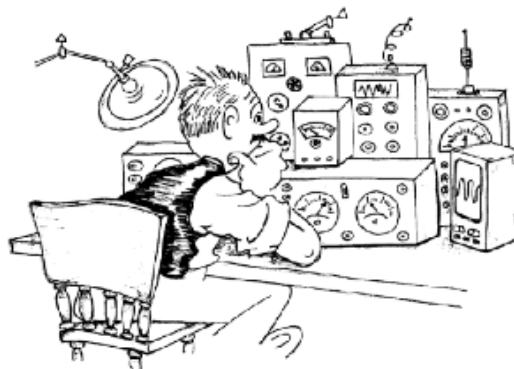
Milton F. “Doug” DeMaw (1926-1997) was a superior technical writer, educator, and Elmer to a generation of Ham operators. Our club libraries hold many of his exemplary publications. Thanks to Rich Patrick KR7W, member of the club and library committee, it was decided before covid to name this downstairs collection in honor of Doug DeMaw.

The term Elmer has a venerable place within the history of amateur radio. I know how important were my own Elmers — Jerry Seligman W7BUN, Nick Winter K7MO, Harry Wong N7DOE, John Robson AC7LK, to name a few. But technical books and inspiring biographies were also part of my over twenty-year progress in Ham radio.

Apparently, the term Elmer originated with an influential Ham named Elmer “Bud” Frohardt Jr, W9DY of Wisconsin, who died in 2016 at the ripe-old age of 93. According to the ARRL, the term Elmer in the sense of mentor first appeared in print in 1971.

However long before Frohardt, the writings of the original Elmer — Elmer E. Bucher in the early twentieth century — fostered knowledge about the then-new wireless science. Indeed, many Hams over the years enlarged their understanding through the books and articles of good teachers like Elmer Bucher. Furthermore in the last generation, the writings of Doug DeMaw tutored Hams during the significant transition era from homebrewed hollow-state radios into the solid-state appliance age. And today, Ward Silver and others in QST carry on the fine art of technical writing to support amateur radio education.

Over the years I’ve been librarian, it has been clear that the books upstairs could not leave this building (due to several considerations). But our bylaws have always required a library “to preserve the history of the Club and amateur radio” and “to meet the educational and research needs of the members and the public.” So a few years ago, the library committee began to build this downstairs circulating library to be run on an honors system. This has proved a great success with the membership, and it is with great pleasure that today we finally dedicate this Doug DeMaw Circulating Library. May it continue to educate a new generation of Hams as well as record the history of the marvelous art and science of radio. And please, please return books on time so that others may get a chance to learn from them! Let’s hear it for Doug DeMaw!



MAILBAG!

N3FJP's ARRL November Sweepstakes Contest Log 7.3.4 www.n3fjp.com

File Settings Band View Help

Current Band & Mode Find Recent Contact

Rec	# S	# R	Prec	Call	Check	Sec	Da
106	106	816	U	N4QS	67	KY	11
105	105	668	U	K4FN	59	KY	11
104	104	753	B	KE4KY	75	KY	11
103	103	310	M	W1FM	6	ME	11
102	102	251	Q	KC4WQ	79	KY	11
101	101	117	A	KE6GLA	95	SV	11
100	100	98	A	NU6T	01	SV	11
99	099	904	U	K9CT	67	IL	11
98	098	237	U	N6GEO	70	SJV	11
97	097	1	A	K7MXE	60	WWA	11
96	096	39	Q	KM6KJI	17	SCV	11

Call # Pre Ck Section

CT
EMA
ME

KR7W Reports: Bob- K7MXE, RCT club member who is known to sometimes say, "You won't catch me Contesting, No way in H E double hockey sticks"..... ended up in KR7W's 2022 ARRL November CW Sweepstakes Contest log. Apparently, Bob was testing his new 3.5W QRP Radio, the [\(tr\)uSDX QRP Transceiver - Five Bands 5W Multimode TRX | DX Explorer](#)



KR7W Continues...

KR7W operates in the 2022 Winter Classic Exchange, AKA 'CX', the CW Portion

The CX is an On The Air Boat Anchor radio operating event. Some would call it a contest because there is a score. The radio in the wooden box is a Home Brew Paraset replica- used by WW2 resistance fighters, British spys who parachuted into Nazi occupied EU countries. 6 QSOs were made with this radio that predates FT-8 by 70+ years.

Click Here to read more about it: [KR7W's Ham Radio Blog: Adventures in the 2022 Fall Classic Exchange](#)



This Bunny Hunt took place in a pristine winter wonderland...

No, not in Idaho, but Yes - in RCT Club Members backyard

Two hunters have a discussion with the "Hunt Master", Bob K7MXE. "The rules changed again?" Click Here to read more about it: [KR7W's Ham Radio Blog: W7EAT Winter Bunny Hunt... Nov 19, 2011](#)



Some of Rich, KR7W's classic exchange equipment. You old timers will recognize some of it, most notable the Glob Chief and matching VFO. The para-set and accessories are home brew by Rich KR7W.



Next in the Mail Bag is a picture of Bob, K7MXE's new ten meter beacon!

Picture of the W7PFR/B ten meter beacon Bob, K7MXE.



The Mighty DK's!

Monthly QSO Report

Each month in the *Bark* the Radio Club of Tacoma recognizes the members and guests who have made non-contest QSOs using the HF stations at our clubhouse. Saturday Open House, especially, is a time when members have access to this equipment. Why not sit down at one of our operating desks and make a contact or two? Assistance is almost always available for those unfamiliar with the equipment, and if your license class doesn't permit HF operation, ask the denizens of the HF Room or the Saturday clubhouse host to help you find a suitably-licensed control operator to sit with you.

It's a feather in the club's hat for the call sign of **The Mighty DK** to be heard on the airwaves. So get on the air and get your name in the *Bark*! (Don't forget to enter your call sign as the operator into our logging program.)

QSOs October 29th through November 26th, 2022:

- Andy KE7RTB: 42
- Mike W7MKE: 10
- Gary WG7X: 5
- Phil K7PIA: 1
- Randy WB4SPB: 1

What was old is now new again!

Once upon a time, the Radio club of Tacoma had a list of people who would act as mentors to new hams or just hams who wanted to ask questions about almost anything.

In ham radio lingo, these types of folks were called “Elmers” from old articles printed, probably in QST, about fellows that would help new hams with questions pertaining to ham radio. The actual origin of the term is kind of lost in the mists of time, but RCT has had this list of mentors for many years. It went away for “reasons” and is now making a return to the club and the Loggers Bark.

This list is preliminary and will be edited or added to as time goes on.

In the list below, you will see members listed with numbers after their names. The numbers correspond to the subject list on the left. So just look at the numbered subject list on the left and see who has those subject(s) as one of their topics. Phone numbers are listed for your use.

Please ignore the background, your editor is still messing around with this stuff!

Elmer Board

Do you need help with some area in ham radio? Here is a place..... First is the listing of areas of support, followed by a list of members' areas of interest.	
1. Technical questions, Classes	Adam W2NCC 360-870-7894 (4,5,6,7,11)
2. Help with Code	AI N7OMS 253-495-9068 (10,12)
3. License Examinations	Dave N7HT 253-363-1692 (1,2,4,6,8)
4. Antenna and Station planning	Dave W7UUU 360-443-6981 (2,4,6,9)
5. Antenna and Tower erection	Gary WG7X 253-327-0503 (1,4,5,6,8,9,10,11,12)
6. Buying new or used equipment	Mike W7XTZ 253-405-8095 (6,8,10)
7. Equipment repair	Phil K7PIA 253-307-4781 (9,10,12)
8. Understanding and operating your equipment	Randy WB4SPB 253-761-9391 (2)
9. DX and Contests	Stephen AD7AB 253-212-9437 (1,3,4,12)
10. Club and ARRL activities	Steve AF7YD 253-988-0878
11. Using test equipment	
12. IRLP, Digital, SDR, ARPS, Winlink, Vara, Satellite	

THE CLUB LINEUP

CLUB OFFICERS

President: Mike Mikuchonis –W7XTZ w7xtz@w7dk.org

Vice Pres: Adam Barbera, W2NCC - w2ncc@w7dk.org

Secretary: Mike Drorbaugh W7MKE - w7mke@w7dk.org

Treasurer: Steve Dightman, AF7YD - af7yd@w7dk.org

5 BOARD MEMBERS

Bruce Hanson, WE7P - we7p@w7dk.org

Paul Matney, W7PFU - w7pfu@w7dk.org

Doug Schaeffer AB7DG@w7dk.org

Red Cranefield, WB7EC - wb7ec@w7dk.org

Phil Pia, K7PIA - k7pia@w7dk.org

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MEMBERSHIP INFO: FULL (licensed) and ASSOCIATE (non licensed) membership is \$35 per calendar year or \$30 for Licensed Seniors (65 and over). Licensed family members at same address pay \$20 each for the first two and are free for the third, fourth, and so on. Full-time students, licensed or non licensed, up to age 25 are \$20 per year. Note: fees are applicable for the calendar year: Jan to Dec. Lifetime membership is 20 times the yearly fee you are eligible for. Lifetime memberships are calculated based on the FULL and ASSOCIATE rates.

www.w7dk.org [LINK] - For the latest and most current information on events and activities, visit the Radio Club of Tacoma Website.

RADIO CLUB REPEATERS

Central Tacoma: 147.280 + PL=103.5

Crawford Mountain 147.380 + PL=103.5 (E of Olympia © 1500 ft ASL)

Central Tacoma: 440.625 + PL=103.5

North Tacoma: 145.21 – PL=141.3